

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Toshiaki Murata et al.
Serial No. : Unknown
Filed : Herewith
Title : PHOTOCATALYST MODULE, PROCESS FOR
PRODUCING THE SAME, AND
PHOTOCATALYST REACTION APPARATUS
Attorney Docket : KAW 2 0101

Assistant Commissioner For Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

Prior to substantive examination of the above-identified patent application, please amend the application as follows:

IN THE CLAIMS:

Please amend claims 4, 5, 9, 10, 11, 12, as follows:

4. The photocatalyst module according to claim 1 wherein said photocatalyst is titanium oxide.

5. The photocatalyst module according to claim 1 wherein said photocatalyst is in a shape of a layer of particles.

9. The process for producing a photocatalyst module according to claim 6 wherein the molar ratio of lithium oxide (Li_2O) to silicon dioxide (SiO_2) (lithium oxide: silicon dioxide) in the lithium silicate is 1:3.

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Preliminary Amendment is being deposited with the United States Postal Service on November 12, 2001 in an envelope as "Express Mail Post Office to addressee" Mailing Label Number EL952683664US, addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231


Pamela Stepka

10. The process for producing a photocatalyst module according to claim 6 wherein the formation of said layer of a photocatalyst is carried out by a flame spray coating method.

11. A photocatalyst reaction apparatus provided with a photocatalyst module defined in claim 1.

12. A photocatalyst reaction apparatus comprising a water tank provided with a photocatalyst module defined in claim 1, water introducing means, water discharging means, and means for radiating ultraviolet rays.

Please add claims 16-20 as follows:

16. The photocatalyst module according to claim 2 wherein said photocatalyst is titanium oxide.

17. The photocatalyst module according to claim 3 wherein said photocatalyst is titanium oxide.

18. The photocatalyst module according to claim 2 wherein said photocatalyst is in a shape of a layer of particles.

19. The photocatalyst module according to claim 3 wherein said photocatalyst is in a shape of a layer of particles.

20. The photocatalyst module according to claim 4 wherein said photocatalyst is in a shape of a layer of particles.

REMARKS

It is respectfully submitted that the subject application is now in better condition for examination.

Respectfully submitted,



Richard J. Minnich
Reg. No. 24,175

FAY, SHARPE, FAGAN,
MINNICH & McKEE, LLP
1100 Superior Avenue
Seventh Floor
Cleveland, Ohio 44114-2518
(216) 861-5582

VERSION WITH MARKINGS SHOWING CHANGES MADE

4. The photocatalyst module according to [any one of claims] claim 1 [to 3] wherein said photocatalyst is titanium oxide.

5. The photocatalyst module according to [any one of claims] claim 1 [to 4] wherein said photocatalyst is in a shape of a layer of particles.

9. The process for producing a photocatalyst module according to [any one of claims] claim 6 [to 8] wherein the molar ratio of lithium oxide (Li_2O) to silicon dioxide (SiO_2) (lithium oxide : silicon dioxide) in the lithium silicate is 1:3.

10. The process for producing a photocatalyst module according to [any one of claims] claim 6 [to 9] wherein the formation of said layer of a photocatalyst is carried out by a flame spray coating method.

11. A photocatalyst reaction apparatus provided with a photocatalyst module defined in [any one of claims] claim 1 [to 5].

12. A photocatalyst reaction apparatus comprising a water tank provided with a photocatalyst module defined in [any one of claims] claim 1 [to 5], water introducing means, water discharging means, and means for radiating ultraviolet rays.